



Ground-based Research Electrostatic Levitator

[illegible]

- undercooled
- i-phase, 1 sec exposure
exists for 3-4 s only
- C-14 Laves phase

Diffraction patterns taken in levitated undercooled sample within the Argonne synchrotron (BESL). Shows metastable i-phase nucleated from the undercooled liquid

- ## ISS Resource Requirements

Accommodation (carrier)	Electromagnetic Levitator (EML) in Columbus Orbiting Facility
Upmass (kg) (w/o packing factor)	0.01 for samples
Volume (m³) (w/o packing factor)	10e-8
Power (kw) (peak)	TBD
Crew Time (hrs) (installation/operations)	2
Autonomous Operation	TBD
Launch/Increment	TBD

[illegible]